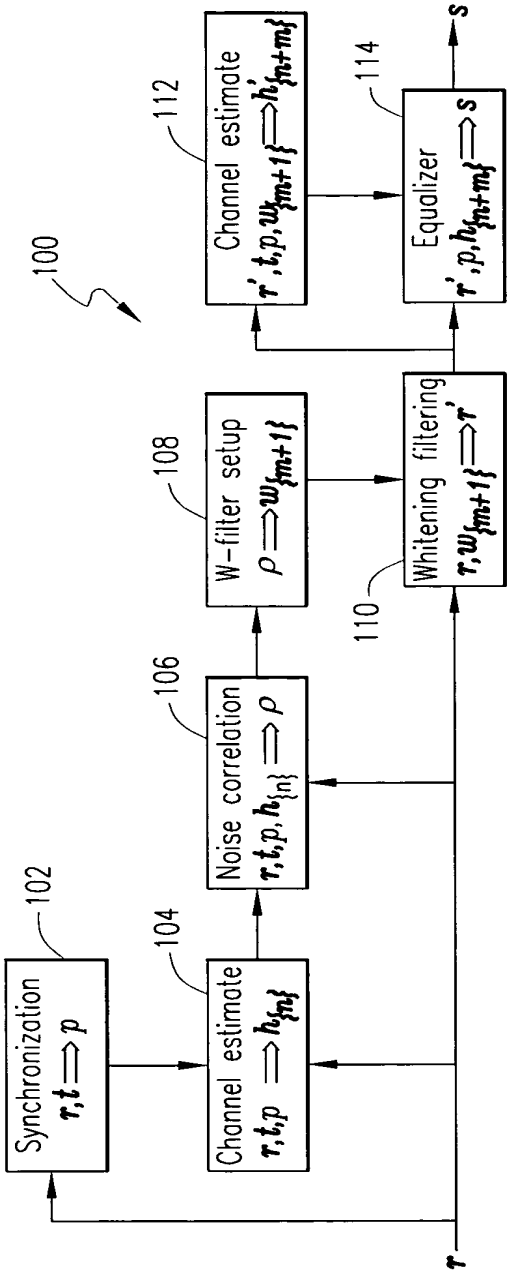
100
Synchronization
r,t ⟹ p
102
Channel estimate
r,t,p ⟹ h{n}
104
Noise correlation
r,t,p,h{n} ⟹ ρ
106
W-filter setup
ρ ⟹ w{m+1}
108
Whitening filtering
r,w{m+1} ⟹ r'
110
Channel estimate
r',t,p,w{m+1} ⟹ h'{n+m}
112
Equalizer
r',p,h'{n+m} ⟹ s
114
s
r

FIG. 1

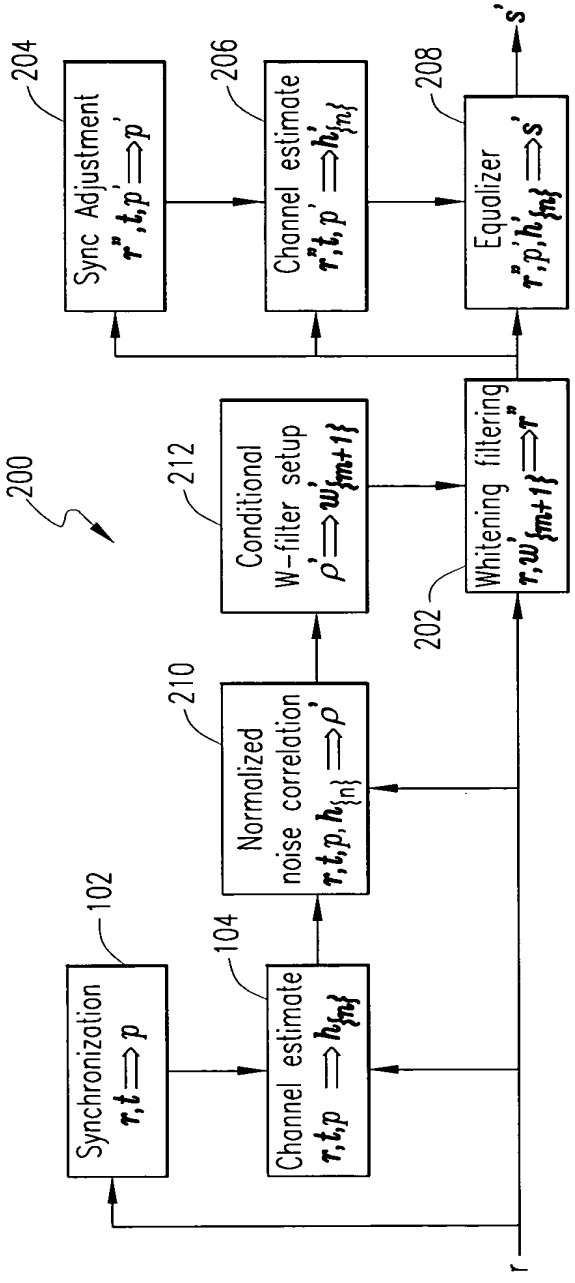
200
Synchronization
r,t ⟹ p
102
Channel estimate
r,t,p ⟹ h{n}
104
Normalized
noise correlation
r,t,p,h{n} ⟹ ρ'
210
Conditional
W-filter setup
ρ' ⟹ w'{m+1}
212
Whitening filtering
r,w'{m+1} ⟹ r"
202
Sync Adjustment
r",t,p' ⟹ p'
204
Channel estimate
r",t,p' ⟹ h'{n}
206
Equalizer
r",p,h'{n} ⟹ s'
208
s'
r

FIG. 2

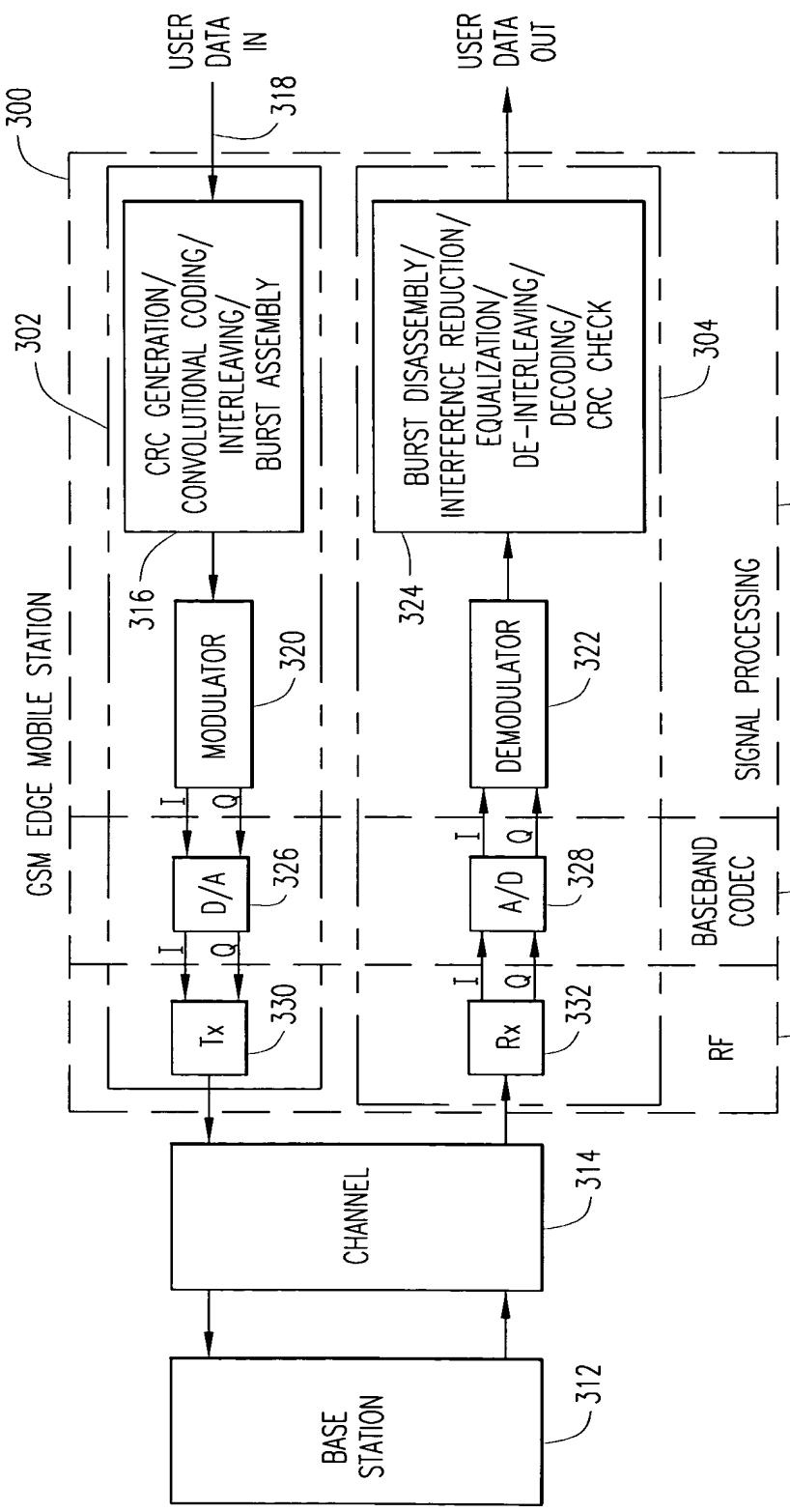
300
USER DATA IN
318
USER DATA OUT
302
CRC GENERATION/ CONVOLUTIONAL CODING/ INTERLEAVING/ BURST ASSEMBLY
316
MODULATOR
320
I
Q
D/A
326
Tx
330
GSM EDGE MOBILE STATION
BURST DISASSEMBLY/ INTERFERENCE REDUCTION/ EQUALIZATION/ DE-INTERLEAVING/ DECODING/ CRC CHECK
304
324
DEMODULATOR
322
A/D
328
Rx
332
SIGNAL PROCESSING
306
BASEBAND CODEC
308
RF
310
CHANNEL
314
BASE STATION
312

FIG. 3